



Tecumseh

Performance Data Sheet

TPG1390YXA

General Information

Model	TPG1390YXA	Refrigerant	R-134a
Test Condition	ASHRAE	Performance Test Voltage	115V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	Motor Type	PTCS_CR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-40	Btu/h	436	380	302	203
	Watts (Power)	91.2	92.5	88.5	78.4
	Amps	0.80	0.81	0.77	0.69
	Lb/h	4.61	4.17	3.36	2.22
-35	Btu/h	610	553	472	369
	Watts (Power)	107	110	108	100
	Amps	0.95	0.96	0.94	0.88
	Lb/h	6.52	6.03	5.19	4.02
-30	Btu/h	819	762	680	573
	Watts (Power)	124	130	131	126
	Amps	1.09	1.13	1.14	1.10
	Lb/h	8.87	8.34	7.46	6.28
-25	Btu/h	1070	1010	930	821
	Watts (Power)	141	150	155	154
	Amps	1.24	1.31	1.35	1.35
	Lb/h	11.7	11.2	10.3	9.06
-23.3	Btu/h	1160	1110	1030	917
	Watts (Power)	146	158	164	165
	Amps	1.28	1.38	1.43	1.44
	Lb/h	12.8	12.2	11.3	10.1
-20	Btu/h	1370	1310	1230	1120
	Watts (Power)	156	171	181	186
	Amps	1.37	1.50	1.58	1.62
	Lb/h	15.1	14.5	13.6	12.4
-15	Btu/h	1720	1670	1580	1470
	Watts (Power)	171	192	208	219
	Amps	1.50	1.68	1.82	1.91
	Lb/h	19.2	18.5	17.6	16.4
-10	Btu/h	2130	2080	2000	1890
	Watts (Power)	182	210	234	253
	Amps	1.61	1.86	2.06	2.22
	Lb/h	23.9	23.2	22.3	21.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.010480E+03	3.641537E+01	3.629707E-01	3.529559E+01
C2	1.100893E+02	-5.578555E+00	-4.332506E-02	1.349186E+00
C3	1.070127E+01	5.592051E+00	5.113621E-02	7.387237E-02
C4	1.475838E+00	-1.658678E-01	-1.213662E-03	1.703231E-02
C5	2.671033E-01	1.944193E-01	1.767559E-03	-6.176035E-04
C6	-2.169951E-01	-7.080109E-03	-1.277555E-04	-2.339743E-03
C7	8.032264E-03	-1.069538E-03	-6.643323E-06	8.213950E-05
C8	2.178879E-03	2.249832E-03	1.982071E-05	1.171399E-05
C9	-1.779147E-03	1.165823E-04	3.007604E-07	8.781294E-06
C10	2.962789E-04	-1.240957E-04	-5.384370E-07	7.151459E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature